

Alpha Pad
Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-011-170903-06-02		ES1-A-012-170903-06-03		ES1-A-012-170903-06-04		ES1-A-013-170903-06-05	
Sampling Location:	11		12		12		13	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/9/2017		9/9/2017		9/9/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,1-Trichloroethane	0.447	U	0.471	U	0.468	U	0.662	U
1,1,2,2-Tetrachloroethane	0.339	U	0.358	U	0.356	U	0.503	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.897	J	0.631	U	0.675	J	0.887	U
1,1,2-Trichloroethane	0.447	U	0.471	U	0.468	U	0.662	U
1,1-Dichloroethane	0.527	U	0.556	U	0.553	U	0.781	U
1,1-Dichloroethene	0.447	U	0.471	U	0.468	U	0.765	J
1,2,3-Trichlorobenzene	0.393	U	0.414	U	0.412	U	0.582	U
1,2,4-Trichlorobenzene	0.866	U	0.913	U	0.909	U	1.28	U
1,2-Dibromo-3-Chloropropane	0.295	U	0.311	U	0.309	U	0.437	U
1,2-Dibromoethane	0.268	U	0.283	U	0.281	U	0.397	U
1,2-Dichlorobenzene	0.223	U	0.235	U	0.234	U	0.331	U
1,2-Dichloroethane	0.465	U	0.49	U	0.487	U	0.688	U
1,2-Dichloropropane	0.447	U	0.471	U	0.468	U	0.662	U
1,3-Dichlorobenzene	0.277	U	0.292	U	0.29	U	0.41	U
1,4-Dichlorobenzene	0.286	U	0.301	U	0.3	U	0.423	U
2-Butanone (MEK)	1.7	U	1.79	U	1.78	U	2.51	U
2-Hexanone	1.97	U	2.07	U	2.06	U	2.91	U
4-Methyl-2-pentanone (MIBK)	1.34	U	1.41	U	1.41	U	1.99	U
Acetone	6.43	U	6.78	U	6.75	U	9.53	U
Benzene	0.563	U	0.593	U	0.59	U	0.834	U
Bromochloromethane	0.804	U	0.848	U	0.843	U	1.19	U
Bromodichloromethane	0.179	U	0.188	U	0.187	U	0.265	U
Bromoform	0.456	U	0.48	U	0.478	U	0.675	U
Bromomethane	0.983	U	1.04	U	1.03	U	1.46	U
Carbon disulfide	0.893	U	0.942	U	0.937	U	1.32	U
Carbon tetrachloride	0.456	U	0.48	U	0.478	U	0.675	U
Chlorobenzene	0.268	U	0.283	U	0.281	U	0.397	U
Chloroethane	0.232	U	0.245	U	0.244	U	0.344	U
Chloroform	0.777	U	0.819	U	0.815	U	1.15	U
Chloromethane	1.07	U	1.13	U	1.12	U	1.59	U
cis-1,2-Dichloroethene	0.509	U	0.537	U	0.534	U	0.754	U

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Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-011-170903-06-02		ES1-A-012-170903-06-03		ES1-A-012-170903-06-04		ES1-A-013-170903-06-05	
Sampling Location:	11		12		12		13	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/9/2017		9/9/2017		9/9/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
cis-1,3-Dichloropropene	0.402	U	0.424	U	0.422	U	0.596	U
Cyclohexane	0.884	U	0.932	U	0.928	U	1.31	U
Dibromochloromethane	0.572	U	0.603	U	0.6	U	0.847	U
Dichlorodifluoromethane	0.652	U	0.687	U	0.684	U	0.966	U
Ethylbenzene	0.402	U	0.424	U	0.422	U	0.596	U
Isopropylbenzene	0.67	U	0.706	U	0.703	U	0.993	U
m,p-Xylene	0.447	U	0.471	U	0.468	U	0.662	U
Methyl acetate	2.46	U	2.59	U	2.58	U	3.64	U
Methyl tert-butyl ether	0.545	U	0.574	U	0.572	U	0.807	U
Methylcyclohexane	0.965	U	1.02	U	1.01	U	1.43	U
Methylene Chloride	4.47	U	4.71	U	4.68	U	6.62	U
o-Xylene	0.357	U	0.377	U	0.375	U	0.529	U
Styrene	0.268	U	0.283	U	0.281	U	0.397	U
Tetrachloroethene	0.661	U	0.697	U	0.693	U	0.979	U
Toluene	0.804	U	0.848	U	0.843	U	1.19	U
trans-1,2-Dichloroethene	0.447	U	0.471	U	0.468	U	0.662	U
trans-1,3-Dichloropropene	0.465	U	0.49	U	0.487	U	0.688	U
Trichloroethene	0.25	U	0.264	U	0.262	U	0.371	U
Trichlorofluoromethane	0.447	U	0.471	U	0.468	U	0.662	U
Vinyl chloride	0.536	U	0.565	U	0.562	U	0.794	U
Xylenes, Total	0.447	U	0.471	U	0.468	U	0.662	U

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Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-014-170903-06-06		ES1-A-015-170903-06-07		ES1-A-016-170903-06-01		ES1-A-017-170903-06-08	
Sampling Location:	14		15		16		17	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/9/2017		9/9/2017		9/9/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,1-Trichloroethane	0.562	U	0.601	U	0.506	U	0.517	U
1,1,2,2-Tetrachloroethane	0.427	U	0.457	U	0.384	U	0.393	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.752	U	0.806	U	0.678	U	0.693	U
1,1,2-Trichloroethane	0.562	U	0.601	U	0.506	U	0.517	U
1,1-Dichloroethane	0.663	U	0.709	U	0.597	U	0.61	U
1,1-Dichloroethene	0.683	J	0.601	U	1.02	J	0.517	U
1,2,3-Trichlorobenzene	0.494	U	0.529	U	0.445	U	0.455	U
1,2,4-Trichlorobenzene	1.09	U	1.17	U	0.981	U	1	U
1,2-Dibromo-3-Chloropropane	0.371	U	0.397	U	0.334	U	0.341	U
1,2-Dibromoethane	0.337	U	0.361	U	0.303	U	0.31	U
1,2-Dichlorobenzene	0.281	U	0.301	U	0.253	U	0.259	U
1,2-Dichloroethane	0.584	U	0.625	U	0.526	U	0.538	U
1,2-Dichloropropane	0.562	U	0.601	U	0.506	U	0.517	U
1,3-Dichlorobenzene	0.348	U	0.373	U	0.314	U	0.321	U
1,4-Dichlorobenzene	0.359	U	0.385	U	0.324	U	0.331	U
2-Butanone (MEK)	2.13	U	2.28	U	1.92	U	1.97	U
2-Hexanone	2.47	U	2.65	U	2.23	U	2.28	U
4-Methyl-2-pentanone (MIBK)	1.68	U	1.8	U	1.52	U	1.55	U
Acetone	8.09	U	8.66	U	7.28	U	7.45	U
Benzene	0.708	U	0.757	U	0.637	U	0.652	U
Bromochloromethane	1.01	U	1.08	U	0.91	U	0.931	U
Bromodichloromethane	0.225	U	0.24	U	0.202	U	0.207	U
Bromoform	0.573	U	0.613	U	0.516	U	0.527	U
Bromomethane	1.24	U	1.32	U	1.11	U	1.14	U
Carbon disulfide	1.12	U	1.2	U	1.01	U	1.03	U
Carbon tetrachloride	0.573	U	0.613	U	0.516	U	0.527	U
Chlorobenzene	0.337	U	0.361	U	0.303	U	0.31	U
Chloroethane	0.292	U	0.313	U	0.263	U	0.269	U
Chloroform	0.977	U	1.05	U	0.88	U	0.9	U
Chloromethane	1.35	U	1.44	U	1.21	U	1.24	U
cis-1,2-Dichloroethene	0.64	U	0.685	U	0.577	U	0.59	U

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Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-014-170903-06-06		ES1-A-015-170903-06-07		ES1-A-016-170903-06-01		ES1-A-017-170903-06-08	
Sampling Location:	14		15		16		17	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/9/2017		9/9/2017		9/9/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
cis-1,3-Dichloropropene	0.505	U	0.541	U	0.455	U	0.465	U
Cyclohexane	1.11	U	1.19	U	1	U	1.02	U
Dibromochloromethane	0.719	U	0.77	U	0.647	U	0.662	U
Dichlorodifluoromethane	0.82	U	0.878	U	0.738	U	0.755	U
Ethylbenzene	0.505	U	0.541	U	0.455	U	0.465	U
Isopropylbenzene	0.842	U	0.902	U	0.759	U	0.776	U
m,p-Xylene	0.562	U	0.601	U	0.506	U	0.517	U
Methyl acetate	3.09	U	3.31	U	2.78	U	2.84	U
Methyl tert-butyl ether	0.685	U	0.733	U	0.617	U	0.631	U
Methylcyclohexane	1.21	U	1.3	U	1.09	U	1.12	U
Methylene Chloride	5.62	U	6.01	U	5.06	U	5.17	U
o-Xylene	0.449	U	0.481	U	0.405	U	0.414	U
Styrene	0.337	U	0.361	U	0.303	U	0.31	U
Tetrachloroethene	0.831	U	0.89	U	0.749	U	0.765	U
Toluene	1.01	U	1.08	U	0.91	U	0.931	U
trans-1,2-Dichloroethene	0.562	U	0.601	U	0.506	U	0.517	U
trans-1,3-Dichloropropene	0.584	U	0.625	U	0.526	U	0.538	U
Trichloroethene	0.314	U	0.337	U	0.283	U	0.29	U
Trichlorofluoromethane	0.562	U	0.601	U	0.506	U	0.517	U
Vinyl chloride	0.674	U	0.721	U	0.607	U	0.621	U
Xylenes, Total	0.562	U	0.601	U	0.506	U	0.517	U

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Alpha Pad
Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-018-170903-06-09		ES1-A-021-170903-06-12		ES1-A-022-170903-06-13		ES1-A-023-170903-06-14	
Sampling Location:	18		21		22		23	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/9/2017		9/9/2017		9/9/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,1-Trichloroethane	0.81	U	0.508	U	0.519	U	0.449	U
1,1,2,2-Tetrachloroethane	0.616	U	0.386	U	0.395	U	0.342	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1.09	U	0.681	U	0.696	U	0.602	U
1,1,2-Trichloroethane	0.81	U	0.508	U	0.519	U	0.449	U
1,1-Dichloroethane	0.956	U	0.599	U	0.613	U	0.53	U
1,1-Dichloroethene	2.3	J	0.508	U	1.79	J	0.449	U
1,2,3-Trichlorobenzene	0.713	U	0.447	U	0.457	U	0.395	U
1,2,4-Trichlorobenzene	1.57	U	0.985	U	1.01	U	0.872	U
1,2-Dibromo-3-Chloropropane	0.535	U	0.335	U	0.343	U	0.297	U
1,2-Dibromoethane	0.486	U	0.305	U	0.311	U	0.27	U
1,2-Dichlorobenzene	0.405	U	0.254	U	0.26	U	0.225	U
1,2-Dichloroethane	0.842	U	0.528	U	0.54	U	0.467	U
1,2-Dichloropropane	0.81	U	0.508	U	0.519	U	0.449	U
1,3-Dichlorobenzene	0.502	U	0.315	U	0.322	U	0.279	U
1,4-Dichlorobenzene	0.518	U	0.325	U	0.332	U	0.288	U
2-Butanone (MEK)	3.08	U	1.93	U	1.97	U	1.71	U
2-Hexanone	3.56	U	2.23	U	2.28	U	1.98	U
4-Methyl-2-pentanone (MIBK)	2.43	U	1.52	U	1.56	U	1.35	U
Acetone	11.7	U	7.31	U	7.47	U	6.47	U
Benzene	1.02	U	0.64	U	0.654	U	0.566	U
Bromochloromethane	1.46	U	0.914	U	0.934	U	0.809	U
Bromodichloromethane	0.324	U	0.203	U	0.208	U	0.18	U
Bromoform	0.826	U	0.518	U	0.529	U	0.458	U
Bromomethane	1.78	U	1.12	U	1.14	U	0.989	U
Carbon disulfide	1.62	U	1.02	U	1.04	U	0.899	U
Carbon tetrachloride	0.826	U	0.518	U	0.529	U	0.458	U
Chlorobenzene	0.486	U	0.305	U	0.311	U	0.27	U
Chloroethane	0.421	U	0.264	U	0.27	U	0.234	U
Chloroform	1.41	U	0.884	U	0.903	U	0.782	U
Chloromethane	1.94	U	1.22	U	1.25	U	1.08	U
cis-1,2-Dichloroethene	0.923	U	0.579	U	0.592	U	0.512	U

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Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-018-170903-06-09		ES1-A-021-170903-06-12		ES1-A-022-170903-06-13		ES1-A-023-170903-06-14	
Sampling Location:	18		21		22		23	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/9/2017		9/9/2017		9/9/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
cis-1,3-Dichloropropene	0.729	U	0.457	U	0.467	U	0.404	U
Cyclohexane	1.6	U	1.01	U	1.03	U	0.89	U
Dibromochloromethane	1.04	U	0.65	U	0.664	U	0.575	U
Dichlorodifluoromethane	1.18	U	0.742	U	0.758	U	0.656	U
Ethylbenzene	0.729	U	0.457	U	0.467	U	0.404	U
Isopropylbenzene	1.21	U	0.762	U	0.779	U	0.674	U
m,p-Xylene	0.81	U	0.508	U	0.519	U	0.449	U
Methyl acetate	4.45	U	2.79	U	2.86	U	2.47	U
Methyl tert-butyl ether	0.988	U	0.62	U	0.633	U	0.548	U
Methylcyclohexane	1.75	U	1.1	U	1.12	U	0.971	U
Methylene Chloride	8.1	U	5.08	U	5.19	U	4.49	U
o-Xylene	0.648	U	0.406	U	0.415	U	0.359	U
Styrene	0.486	U	0.305	U	0.311	U	0.27	U
Tetrachloroethene	1.2	U	0.752	U	0.768	U	0.665	U
Toluene	1.46	U	0.914	U	0.934	U	0.809	U
trans-1,2-Dichloroethene	0.81	U	0.508	U	0.519	U	0.449	U
trans-1,3-Dichloropropene	0.842	U	0.528	U	0.54	U	0.467	U
Trichloroethene	0.454	U	0.284	U	1.84	J	0.252	U
Trichlorofluoromethane	0.89	J	0.508	U	0.519	U	0.449	U
Vinyl chloride	0.972	U	0.61	U	0.623	U	0.539	U
Xylenes, Total	0.81	U	0.508	U	0.519	U	0.449	U

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Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-024-170903-06-15		ES1-A-025-170903-06-16		ES1-A-025-170903-06-17		ES1-A-026-170903-06-18	
Sampling Location:	24		25		25		26	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/10/2017		9/9/2017		9/8/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,1-Trichloroethane	0.43	U	0.471	U	0.493	U	0.458	U
1,1,2,2-Tetrachloroethane	0.327	U	0.358	U	0.375	U	0.348	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.576	U	0.631	U	0.661	U	0.614	U
1,1,2-Trichloroethane	0.43	U	0.471	U	0.493	U	0.458	U
1,1-Dichloroethane	0.507	U	0.556	U	0.582	U	0.541	U
1,1-Dichloroethene	0.43	U	0.471	U	0.536	J	0.458	U
1,2,3-Trichlorobenzene	0.378	U	0.414	U	0.434	U	0.403	U
1,2,4-Trichlorobenzene	0.834	U	0.913	U	0.957	U	0.889	U
1,2-Dibromo-3-Chloropropane	0.284	U	0.311	U	0.326	U	0.303	U
1,2-Dibromoethane	0.258	U	0.282	U	0.296	U	0.275	U
1,2-Dichlorobenzene	0.215	U	0.235	U	0.247	U	0.229	U
1,2-Dichloroethane	0.447	U	0.49	U	0.513	U	0.477	U
1,2-Dichloropropane	0.43	U	0.471	U	0.493	U	0.458	U
1,3-Dichlorobenzene	0.266	U	0.292	U	0.306	U	0.284	U
1,4-Dichlorobenzene	0.275	U	0.301	U	0.316	U	0.293	U
2-Butanone (MEK)	1.63	U	2.9	J	11.1		5.87	J
2-Hexanone	1.89	U	2.07	U	2.17	U	2.02	U
4-Methyl-2-pentanone (MIBK)	1.29	U	1.41	U	1.48	U	1.38	U
Acetone	6.19	U	22.4	J	289	J	24.5	J
Benzene	0.541	U	0.593	U	0.622	U	0.578	U
Bromochloromethane	0.773	U	0.847	U	0.888	U	0.825	U
Bromodichloromethane	0.172	U	0.188	U	0.197	U	0.183	U
Bromoform	0.438	U	0.48	U	0.503	U	0.468	U
Bromomethane	0.945	U	1.04	U	1.09	U	1.01	U
Carbon disulfide	0.859	U	0.942	U	1.84	J	0.917	U
Carbon tetrachloride	0.438	U	0.48	U	0.503	U	0.468	U
Chlorobenzene	0.258	U	0.282	U	0.296	U	0.275	U
Chloroethane	0.223	U	0.245	U	0.257	U	0.238	U
Chloroform	0.748	U	0.819	U	0.858	U	0.798	U
Chloromethane	1.03	U	1.13	U	1.18	U	1.1	U
cis-1,2-Dichloroethene	0.49	U	0.537	U	0.562	U	0.523	U

U = indicates analyte was analyzed for but not detected above the method detection limit as shown.

J = result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Alpha Pad
Pre-Staging Sample Results
9/2/2017 - 9/3/2017
Volatile Organic Compounds

Sample Number:	ES1-A-024-170903-06-15		ES1-A-025-170903-06-16		ES1-A-025-170903-06-17		ES1-A-026-170903-06-18	
Sampling Location:	24		25		25		26	
Matrix:	Solid		Solid		Solid		Solid	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:	9/3/2017		9/3/2017		9/3/2017		9/3/2017	
Date Analyzed:	9/9/2017		9/10/2017		9/9/2017		9/8/2017	
Parameter	Result	Flag	Result	Flag	Result	Flag	Result	Flag
cis-1,3-Dichloropropene	0.387	U	0.424	U	0.444	U	0.413	U
Cyclohexane	0.851	U	0.932	U	0.977	U	0.908	U
Dibromochloromethane	0.55	U	0.603	U	0.631	U	0.587	U
Dichlorodifluoromethane	0.627	U	0.687	U	0.72	U	0.669	U
Ethylbenzene	0.387	U	0.424	U	0.444	U	0.413	U
Isopropylbenzene	0.645	U	0.706	U	0.74	U	0.688	U
m,p-Xylene	0.43	U	0.471	U	0.493	U	0.458	U
Methyl acetate	2.36	U	2.59	U	2.71	U	2.52	U
Methyl tert-butyl ether	0.524	U	0.574	U	0.602	U	0.559	U
Methylcyclohexane	0.928	U	1.02	U	1.07	U	0.99	U
Methylene Chloride	4.3	U	4.71	U	4.93	U	4.58	U
o-Xylene	0.344	U	0.377	U	0.395	U	0.367	U
Styrene	0.258	U	0.282	U	0.296	U	0.275	U
Tetrachloroethene	0.636	U	0.697	U	0.73	U	0.678	U
Toluene	0.773	U	0.847	U	0.888	U	0.825	U
trans-1,2-Dichloroethene	0.43	U	0.471	U	0.493	U	0.458	U
trans-1,3-Dichloropropene	0.447	U	0.49	U	0.513	U	0.477	U
Trichloroethene	0.241	U	0.264	U	0.276	U	0.257	U
Trichlorofluoromethane	0.43	U	0.471	U	0.493	U	0.458	U
Vinyl chloride	0.516	U	0.565	U	0.592	U	0.55	U
Xylenes, Total	0.43	U	0.471	U	0.493	U	0.458	U

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J = result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.